

CLAIMS

1. A method for determining an address of a network node in a network where the subscriber currently locates in a mobile communication system, the method comprising:

maintaining in the mobile communication system subscriber's location information; and

determining on the basis of the subscriber's location information the address of the network node.

2. The method of claim 1, further comprising:

receiving in the mobile communication system a message from subscriber's user equipment, the message indicating the address of the network node;

checking whether or not the address which the message indicated corresponds to the address determined on the basis of the location information; and

if they do not correspond to each other, using the address determined on the basis of the location information.

3. The method of claim 1, further comprising:

receiving in the mobile communication system a message from subscriber's user equipment, the message including subscriber's location information;

checking whether or not the location information in the message corresponds to the location information maintained in the system; and

using the maintained location information if it does not correspond to the location information in the message.

4. A method for determining a network node address in a mobile communication system, the network node being in a location network of a subscriber, the method comprising:

receiving in the mobile communication system a message from subscriber's user equipment, the message indicating subscriber's location information; and

determining on the basis of the subscriber's location information the address of the network node.

5. The method of claim 4, wherein the message contains a global cell identifier which indicates the subscriber's location information.

6. A method for transmitting, to subscriber's user equipment, information required for a service in a mobile communication system, the method comprising:

authenticating the subscriber; and

transmitting to the user equipment at least part of the information during the subscriber authentication.

7. The method of claim 6, wherein the authentication is application level authentication.

8. The method of claim 6, wherein the service is certificate issuance service and the user equipment utilizes said part of the information during a certificate issuance procedure in a visited network.

9. The method of claim 6, wherein said part of the information is location network specific information.

10. The method of claim 6, wherein said part of the information comprises at least an address of a network node via which the service is provided.

11. The method of claim 6, wherein said part of the information comprises at least a public key required for the service.

12. The method of claim 6, wherein said part of the information comprises at least an indication of the protocol required for the service.

13. The method of claim 6, wherein the service is certificate issuance service and said part of the information comprises at least an address of a network node via which the service is provided and the method further comprising transmitting from the user equipment a certificate request to the network node.

14. A method for transmitting to subscriber's user equipment information required for a service in a mobile communication system, the method comprising:

authenticating the subscriber;
receiving a message relating to the service; and
transmitting to the user equipment in a reply message at least part of the information in response to the received message.

15. The method of claim 14, wherein the message and the reply message are transmitted in an integrity protected channel.

16. The method of claim 15, wherein the message is transmitted from the user equipment, the message is requesting an address of a network node via which the service is provided and said part of the information comprises at least the requested address..

17. The method of claim 16, further comprising transmitting from the user equipment a certificate request to the network node.

18. The method of claim 14, wherein said part of the information comprises at least a public key required for the service.

19. The method of claim 15, wherein said part of the information comprises at least an indication of the protocol required for the service.

20.. The method of claim 11, wherein the message relates to a certificate issuance service.

21. A mobile communication system comprising at least user equipment and a network comprising at least a network node, the system being configured to determine a network node address in on the basis of location information of user equipment, wherein the network node is in a location network of the user equipment.

22. The system of claim 21, wherein the location network is a visited network.

23. The system of claim 21 comprising a gateway network for certificate requests in a home network of the user equipment, the gateway network being configured to perform the network node address determination.

24. The method of claim 1, further comprising:

receiving in the mobile communication system a message from subscriber's user equipment, the message including subscriber's location information;

checking whether or not the location information in the message corresponds to the location information maintained in the system; and

if it does not correspond to the location information in the message, sending an error indication by using the maintained location information.

25. The method of claim 1, further comprising:

receiving in the mobile communication system a message from subscriber's user equipment, the message including subscriber's location information;

checking whether or not the location information in the message corresponds to the location information maintained in the system; and

using the location information in the message if it does not correspond to the maintained location information.

26. The method of claim 1, further comprising:

receiving in the mobile communication system a message from subscriber's user equipment, the message including subscriber's location information;

checking whether or not the location information in the message corresponds to the location information maintained in the system; and

if it does not correspond to the maintained location information, sending an error indication by using the location information in the message.

27. A method for transmitting to subscriber's user equipment information required for a service in a mobile communication system, the method comprising:

authenticating the subscriber; and

transmitting to the user equipment at least part of the information using an authenticated channel.

28. A network node in a mobile communication system, wherein the network node (AU-H) is arranged to determine an address of another network node required for providing a service for a subscriber on the basis of subscriber's location information.

29. The network node of claim 28, wherein the network node (AU-H) is in a home network and the other network node is in a visited network.

30. User equipment in a mobile communication system, wherein the user equipment (UE) is arranged to receive at least part of the information required for a service in a location network of the user equipment after the user equipment has been authenticated.

31. The user equipment of claim 30, wherein the user equipment (UE) is arranged to receive said part of the information from a network node with which the user equipment was authenticated, the network node being in a home network.